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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,779	09/20/2001	Per Lindgren	10806-005	5941

7590 05/03/2005

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EXAMINER	
HOANG, THAI D	

ART UNIT	PAPER NUMBER
2667	

DATE MAILED: 05/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/806,779	LINDGREN ET AL.	
	Examiner	Art Unit	
	Thai D. Hoang	2667	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *03* MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *20 September 2001*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-12* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-12* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *20 September 2001* is/are: a)☐ accepted or b)☒ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *07/10/2001*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Drawings

The drawings are objected to because figures 3-6 lack descriptive legends for elements shown in the figures. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claims 6-12 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim should refer to other claims in the alternative only

and cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-12 are rejected under 35 U.S.C. 102(b) as being unpatentable by the article "The DTM Gigabit Network" published by Bohm et al., pp. 109-126.

Regarding claims 1 and 7-9, Bolm discloses a prototype node in the article comprising:

Fiber Access units (FAU) for receiving and transmitting form/to a fiber bus a plurality of Dynamic synchronous Transfer mode (DTM) channels, p. 120, figure 6, paragraph 4.1 (an interface (111) for receiving one or more input DTM channels from said switch core and for transmitting one or more output DTM channels to said switch core);

A demux for deriving the received data from DTM input channels into time slots; fig. 7, read channel table , paragraph 4.1(means (115) for deriving at least a portion of a data packet received, divided into DTM time slots, in one of said input DTM channels);

A node controller (NC) for routing received data to at least one of a plurality of output DTM channels; paragraph 4.3 (routing means (117) for selecting, based upon

information provided in said at least a portion of a data packet, if said data packet is to be transmitted in one or more of said output DTM channels and, if so, which one or more of said output DTM channels said data packet is to be transmitted in);

A Mux for multiplexing and outputting data in a plurality of DTM channels and time slots, fig. 7, Write channel table , paragraph 4.1 (output means (116) for providing one or more output DTM channels with said data packet, divided into DTM time slots, in accordance with the selection of output DTM channels made by said routing means).

Regarding claims 2 and 6, Bolm discloses a prototype node in the article comprising:

Fiber Access units (FAU) for receiving and transmitting form/to a fiber bus a plurality of Dynamic synchronous Transfer mode (DTM) channels, p. 120, figure 6, paragraph 4.1 (means (113, 114) for receiving sequential input DTM frames from said switch core and for transmitting sequential output DTM frames to said switch core);

A node controller (NC) sets up the channel tables in the FAU by writing data to it. The NC includes mechanisms for maintaining channels and algorithm for slot allocating and routing. In addition, Bolm discloses in figure 7 an incoming channel table and an out going channel table. It indicates the system can determine the existence of one or more input DTM channels transferred in said input DTM frames, and of one or more output DTM channels transferred in said output DTM frames;

Bolm teaches in fig. 3 a time frame of the system is 125 μs, each time frame comprises a plurality of DTM channels, wherein each of the plurality of DTM channels includes one or more time slots. Therefore, the system inherently comprise means for

generating said sequential output DTM frames and for providing DTM time slots thereof, defining an output DTM channel, with said data packet, divided into DTM time slots, in accordance with the selection of output DTM channels made by said routing means.

Regarding claims 3 and 10-11, Bolm discloses system writes and stores the input data at a respective location thereof in the buffer; and the stored data is read form the buffer for outputting in accordance with the selection of output DTM channels made by Node controller, figure 7, paragraphs 4.1, 4.3 (comprising a memory (119) for temporarily storing data packets at respective memory locations thereof, wherein said interface comprises means (115) for writing said data packet into an allocated memory location of said memory when receiving said data packet and wherein said frame generating means comprises means for reading said data packet from said allocated memory location for transmission in accordance with the selection of output DTM channels made by said routing means).

Regarding claim 4, Bolm teaches that the system comprises slot counter for providing location of a data packet that is stored in the buffer; figure 7 (comprising a storage manager (120) arranged to temporarily allocate a memory location of said memory for storing said data packet and to provide said interface with information designating said memory location).

Regarding claim 5, Bolm discloses that the system dynamically allocates timeslots based on a request; paragraph 2.5.2, 4.3 (wherein said memory location is allocated by said storage manager for storing said data packet as a result of a request made by said interface when receiving said data packet).

Regarding claim 12, Bolm discloses that the system is the circuit switched system, abstract (wherein said switch core is circuit switched).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. 6,320,863 B1, Ramfelt et al., "Backplane architecture for dynamic synchronous transfer mode."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D. Hoang whose telephone number is (571) 272-3184. The examiner can normally be reached on Monday-Friday 10:00am-18:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thai Hoang

CHI PHAM
SUPERVISORY PATENT EXAMINER
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5/1/05